ECHO

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* [ECHO cardiography] :-
ultrasono sonography of heart is terms as 'ECHO' cardiography.

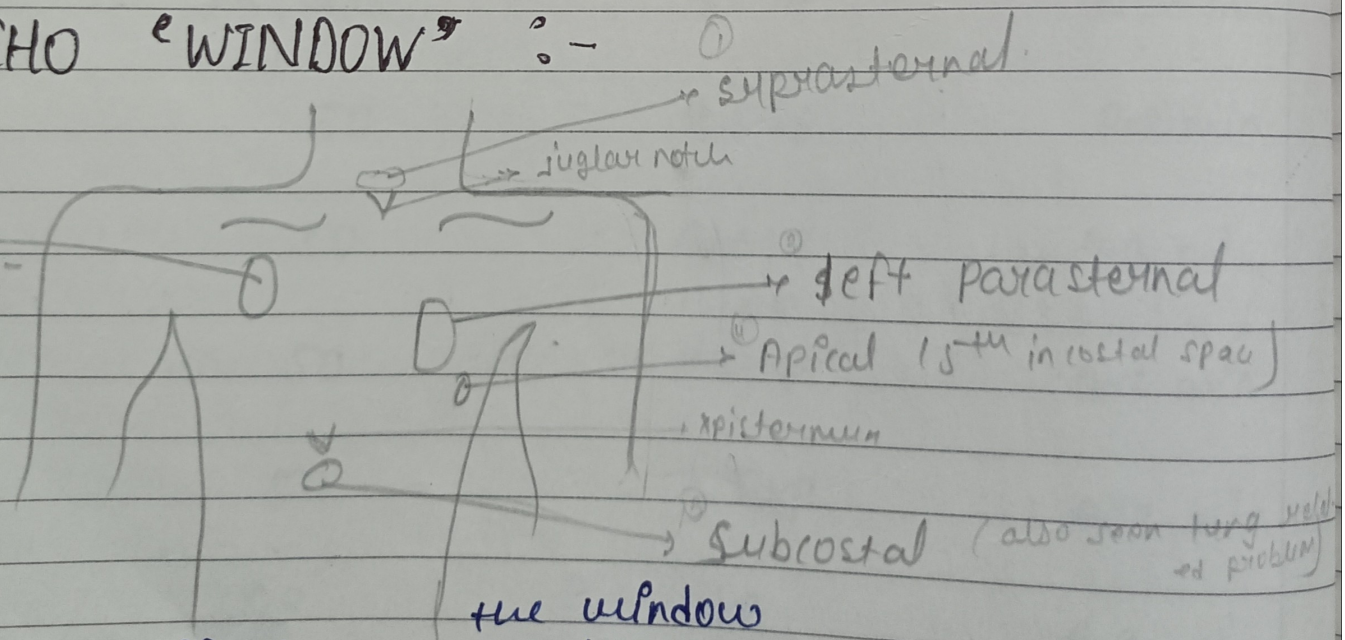
→ This uses reflected ultrasound to study blood flow the structure of heart & movement of valves & cardiac muscles.

→ It is a ~~skafe~~ safe, powerful, inpasive teng.

* Tenchnquies :-
1) ultrasounds of different frequency [In adult usually 2 to 4 mHz] is transmitted from a transducer is placed on subject anterior chest wall.

2) The subject usually lies in the left lateral position & ultrasound jelly is placed on the transducer to ensure good images.

* ECHO 'WINDOW' :-



the window

ECHO WINDOWS are, that allow good penetration of ultrasound without to much masking & absorption by lungs & limb.

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→ Thus these are standard position which give clear image of heart.
[5 types] -

1) Suprasternal - for imaging in aorta in co-arectation (above jugular) angiectasis
2) Right parasternal - aortic stenosis. (ascending)
3) left parasternal - 2 to 4th intercostal space
4) Apical / cardiac apex - aortic flow [5th left intercostal space].
5) subcostal - [under xiphisternum] useful in lung disease.

Indication :-
Assessment of valve function. systolic or dystolic function murmur.
suspected andocarditis or myocarditis.
assessment of left ventricular function.
cardiac temponant or aorthymas.
pericardial disease.
assessment of prostatic & valve function.
Stroke & trangiant ischemic attack [TIA]
suspesion of intra cardiac massage [from thrombi / tumur].
congitital heart disease.
MI.
Ventricular sptal disease. [VSD].
effusion

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